

of packaged Drinking Water, wherein the limits for Pesticide Residues has been prescribed. Water comprises approximately 88% of most carbonated drinks.

The analysis of the informal samples of carbonated water were collected by the State Governments as per the direction of the Ministry of Health and Family Welfare during August-September, 2006, and were analysed by the Central Food Laboratories for pesticide residues. As per the analysis reports, none of the samples exceeded the permissible limits prescribed for pesticides residues in Packaged Drinking Water.

The Bureau of Indian Standards (BIS) has also set standards for carbonated beverages (IS 2346) which are under review. The BIS standards are, however, voluntary. Under the PFA Rules, 1955, carbonated drinks are not required to be sold under mandatory BIS Certification Mark.

The Ministry of Health and Family Welfare has constituted a National Expert Committee to guide the Pesticide Residues Sub-Committee in fixation of MRLs of pesticides in carbonated beverages, fruit and vegetable juices and other finished products.

States/UT Governments, who are the implementing authorities under the PFA Act have been advised to ensure regular sampling and testing of soft drinks to ensure that quality standards are maintained.

Vaccine for Dengue and Chikungunya

***146. SHRIMATI MAYA SINGH:
SHRI SURENDRA LATH:**

Will the Minister of HEALTH AND FAMILY WELFARE be pleased to state:

(a) whether it is a fact that Dengue and Chikungunya/Malaria is becoming an epidemic in the country;

(b) if so, whether Government are going to invent any vaccine for preventing these disease;

(c) whether Government have conducted any research in this regard; and

†Original notice of the question was received in Hindi.

(d) if so, the present status in this regard?

THE MINISTER OF HEALTH AND FAMILY WELFARE (DR. ANBUMANI RAMDOSS): (a) Dengue and Chikungunya are viral diseases transmitted by vector mosquito *Aedes aegypti*, while malaria is a parasitic disease and transmitted by *Anopheles* vector mosquitoes. Dengue and Malaria are endemic and occur every year with the upsurge during the monsoon and post monsoon months when there is a build up of vector mosquito density. Chikungunya fever, on the other hand, has been reported in the country in the year 2006 after a long period on a wide spread basis, therefore, it is an epidemic outbreak.

State-wise Malaria Cases and Deaths are given in Statement-I (See below).

State-wise Chikungunya Cases and Deaths are given in Statement-II (See below).

State-wise Dengue Cases and Deaths are given in Statement-III (See below).

(b) to (d) At present, there is no vaccine or cure available for alleviation of these diseases.

Information regarding various vaccine trials abroad for Dengue is given in Statement-IV (See below).

There is no vaccine available for prevention of Chikungunya so far.

The National Institute of Malaria Research (NIMR) of Indian Council of Medical Research (ICMR) is conducting research on malaria vaccine at Rourkela, Orissa (initiated in 2002) in collaboration with International Centre for Genetic Engineering and Biotechnology (ICGEB) & Department of Biotechnology (DBT) and with collaboration of ICMR & Centres for Disease Control and Prevention (CDC) Atlanta, at Jabalpur, MP (initiated in 2005). NIMR is generating baseline epidemiological data required for testing the vaccine in population while the ICGEB & CDC are developing the products. The candidates vaccine for trial in Orissa is recombinant peptide against blood stages of *P. falciparum* while the CDC vaccine is also recombinant peptide but against multiple stages of *P. falciparum*.

Statement-I**State-wise Malaria cases and Deaths since 2003**

States/UT	2003		2004		2005		2006*	
	Malaria cases	Deaths	Malaria cases	Deaths	Malaria cases	Deaths	Malaria cases	Deaths
1	2	3	4	5	6	7	8	9
Andhra Pradesh	35995	3	35427	2	39099	0	21093	0
Arunachal Pradesh	34810	0	29849	0	31215	0	5124	0
Assam	76570	53	58134	54	67885	113	94592	294
Bihar	2652	1	1872	0	2733	1	1426	0
Chhattisgarh	194419	4	194256	4	187950	3	30188	0
Goa	11370	1	7839	7	3747	1	3345	4
Gujarat	130744	65	222759	89	179023	54	63573	0
Haryana	4374	0	10064	0	33262	0	42991	0
Himachal Pradesh	133	0	126	0	129	0	84	0
Jammu & Kashmir	320	0	250	0	268	0	132	0
Jharkhand	118902	13	143722	40	193144	21	127783	4
Karnataka	100220	22	80961	27	83181	26	44375	20
Kerala	2575	7	2790	12	2554	6	365	1
Madhya Pradesh	99708	22	132094	36	104317	44	50279	0
Maharashtra	62947	85	68988	61	47608	104	35283	91
Manipur	2589	17	2736	8	1844	3	1559	1
Meghalaya	18366	38	18080	29	16816	41	18760	59
Mizoram	7293	48	7830	72	10741	74	7957	105
Nagaland	3370	0	2436	1	2987	0	2987	9
Orissa	421323	333	416732	283	396573	255	191544	115
Punjab	379	1	1643	0	1883	0	1012	0
Rajasthan	142738	66	105022	20	52286	22	18644	0
Sikkim	278	0	160	3	69	0	81	0
Tamil Nadu	43604	0	41732	0	39678	0	14723	0
Tripura	13807	13	17453	16	18008	20	19690	25

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1	2	3	4	5	6	7	8	9
Tripura	13807	13	17453	16	18008	20	19690	25
Uttaranchal	2350	0	1255	0	1242	0	904	0
Uttar Pradesh	101411	0	87022	0	105303	0	33295	0
West Bengal	233802	214	220871	184	185964	175	48772	91
A.N. Islands	753	0	745	1	3954	0	2046	0
Chandigarh	84	0	199	0	432	0	377	0
D & N Haveli	468	0	787	0	1166	0	1595	0
Daman & Diu	141	0	118	0	104	0	109	0
Delhi	839	0	1316	0	1133	0	427	0
Lakshadweep	6	0	2	0	0	0	0	0
Pondicherry	63	0	43	0	44	0	32	0
ALL INDIA TOTAL	1869403	1006	1915363	949	1816342	963	885147	819

*Provisional up to 17.11.2006

Statement-II

State-wise Status of Chikungunya Fever in India, 2006 (up to 28.11.2006)

State	No. of districts affected	Total fever cases/ Suspected Chikungunya fever cases	No. of samples sent to NIV/NICD	No. of confirmed cases	No. of deaths
1	2	3	4	5	6
Andhra Pradesh	23	77535	1224	248	0
Karnataka	27	762017	4994	298	0
Maharashtra	34	268321	5421	719	0
Tamil Nadu	35	64292	648	116	0
Madhya Pradesh	21	59981	892	70	0
Gujarat	25	74770	1082	185	0

1	2	3	4	5	6
Kerala	14	69225	235	38	0
A & N Islands	2	4469	0	0	0
GNCT of Delhi	12	514	514	56	0
Rajasthan	1	102	44	24	0
Pondicherry	1	542	52	9	0
Goa	2	287	75	2	0
TOTAL	197	1382055	15181	1765	0

Statement-III

State-wise dengue cases & deaths (As on 28/11/2006)

Sl. No.	State	2003		2004		2005		2006 (upto 28 Nov.)	
		C	D	C	D	C	D	C	D
1	2	3	4	5	6	7	8	9	10
1.	Andhra Pradesh	95	5	230	1	99	2	154	17
2.	Chandigarh	0	0	0	0	2	0	168	0
3.	Delhi	2882	35	606	3	1023	9	3302	65
4.	Goa	12	2	3	0	1	0	0	0
5.	Gujarat	249	9	117	4	454	11	503	3
6.	Haryana	95	4	25	0	183	1	450	2
7.	J & K	0	0	0	0	0	0	24	0
8.	Karnataka	1226	7	291	2	587	17	98	7
9.	Kerala	3546	68	686	8	1028	8	880	5
10.	Maharashtra	772	45	856	22	349	56	596	20
11.	Sikkim	0	0	12	0	0	0	0	0
12.	Punjab	848	13	52	0	251	2	1118	6

1	2	3	4	5	6	7	8	9	10
13.	Rajasthan	685	11	207	5	370	5	1224	17
14.	Tamil Nadu	1600	8	1027	0	1142	8	328	2
15.	Pondicherry	6	0	0	0	0	0	0	0
16.	Uttar Pradesh	738	8	8	0	121	4	637	14
17.	D&N Haveli	0	0	1	0	0	0	0	0
18.	West Bengal	0	0	32	0	6375	34	1021	8
19.	Madhya Pradesh	0	0	0	0	0	0	7	0
TOTAL		12754	215	1153	45	11985	157	10510	166

C=Cases, D=Deaths

38 Deaths from Dengue confirmed in Delhi & NCR and 27 Suspected Deaths from Dengue reported (7 from Delhi and 20 from others States)-Confirmation report still awaited.

(*13 suspected deaths have not been confirmed by the MCD Board, thereby, deleted.)

Statement-IV

Information regarding various vaccine trials abroad for dengue

Developers/Vaccine Candidates	Manufacturers	Stages
Mahidol Univ./live attenuated, tetravalent Aventis Phase II	Aventis	Phase II Preparing for Phase III
Walter Reed/live attenuated, Tetravalent	Glaxo Smith Kline	Phase I
Acambis/YF-Dengue Chimeric, tetravalent	Acambis/Aventis	Phase I
NIH/5' deletions, Recombinant dengue 4	NIH	Phase I
CDC-Mahidol/Dengue 2 chimeric	dengue-Aventis	Aventis Monkey Testing